Summit Agenda: Sacramento

March 7, 2006

7:30 a.m. – 8:30 a.m. Registration and Continental Breakfast

8:30 a.m. – 8:45 a.m. Welcome and Introductions

Moderators: Jasvinderjit (Jesse) Bhullar, P.E., T.E., State Highway Safety Engineer, California Department of Transportation and Jack Champlin, Deputy Regional

CALIFORNIA STRATEGIC HIGHWAY SAFETY PLAN

Administrator, National Highway Traffic Safety Administration

8:45 a.m. – 9:30 a.m. Support of Strategic Highway Safety Plan

Will Kempton, Director, California Department of Transportation

David Manning, Ph.D., Regional Administrator, Western Region,

National Highway Traffic Safety Administration

Kevin Green, Assistant Commissioner, California Highway Patrol

Michele Meadows, Assistant Director of Operations, California Office of Traffic Safety

Cesar Aristeiguieta, MD, Director, California Emergency Medical Services Authority

Maurice Shiu, Public Works Director, Contra Costa County

National Perspective

K. Craig Allred, Transportation Specialist, Resource Center Safety and Design Team,

Federal Highway Administration

9:30 a.m. - 9:45 a.m. Break

9:45 a.m. – 11:45 a.m. Breakout Session #1 (5 concurrent workshops)

Workshop 1: Walking and Bicycling

Workshop 2: Vehicle Safety

Workshop 3: Emergency Medical Services Workshop 4: Reducing Impaired Driving

Workshop 5: Improving the Design and Operation of Roadway Intersections

11:45 a.m. – 1:15 p.m. Lunch

Keynote Speaker: Bernard Arseneau, State Traffic Engineer,

Office of Traffic Safety and Operations, Minnesota Department of Transportation

1:15 p.m. – 3:15 p.m. Breakout Session #2 (5 concurrent workshops)

Workshop 6: Curbing Aggressive Driving

Workshop 7: Reducing Number and Severity of Run Off Road Collisions

Workshop 8: Design Safer Work Zones

Workshop 9: Improve Decision Support Systems

Workshop 10: Driver Competency

3:15 p.m. – 3:30 p.m. Break

3:30 p.m. – 4:00 p.m. *Summit Wrap-up (Summary/Questions/Next Steps)*

Moderators: Jack Champlin, Deputy Regional Administrator, National Highway Traffic

Safety Administration and Jasvinderjit (Jesse) Bhullar, P.E., T.E., State Highway

Safety Engineer, California Department of Transportation

Gene Fong, Division Administrator, Federal Highway Administration

John McClellan, Deputy Director, California Department of Motor Vehicles

4:00 p.m. Adjourn

Summit Agenda: Ontario

March 9, 2006

7:30 a.m. – 8:30 a.m. Registration and Continental Breakfast

8:30 a.m. – 8:45 a.m. Welcome and Introductions

Moderators: Jasvinderjit (Jesse) Bhullar, P.E., T.E., State Highway Safety Engineer, California Department of Transportation and Jack Champlin, Deputy Regional

CALIFORNIA STRATEGIC HIGHWAY SAFETY PLAN

Administrator, National Highway Traffic Safety Administration

8:45 a.m. – 9:30 a.m. Support of Strategic Highway Safety Plan

Michael Miles, Deputy Director, Maintenance and Operations,

California Department of Transportation

Christopher J. Murphy, Director, California Office of Traffic Safety

Arthur Anderson, Assistant Commissioner, California Highway Patrol

John McClellan, Deputy Director, California Department of Motor Vehicles

Cesar Aristeiguieta, MD, Director, California Emergency Medical Services Authority

George Johnson, County Engineers Association of California

National Perspective

K. Craig Allred, Transportation Specialist, Resource Center Safety and Design Team,

Federal Highway Administration

9:30 a.m. - 9:45 a.m. Break

9:45 a.m. – 11:45 a.m. Breakout Session #1 (5 concurrent workshops)

Workshop 1: Walking and Bicycling

Workshop 2: Vehicle Safety

Workshop 3: Emergency Medical Services Workshop 4: Reducing Impaired Driving

Workshop 5: Improving the Design and Operation of Roadway Intersections

11:45 a.m. – 1:15 p.m. Lunch

Keynote Speaker: Bernard Arseneau, State Traffic Engineer,

Office of Traffic Safety and Operations, Minnesota Department of Transportation

1:15 p.m. – 3:15 p.m. Breakout Session #2 (5 concurrent workshops)

Workshop 6: Curbing Aggressive Driving

Workshop 7: Reducing Number and Severity of Run Off Road Collisions

Workshop 8: Design Safer Work Zones

Workshop 9: Improve Decision Support Systems

Workshop 10: Driver Competency

3:15 p.m. – 3:30 p.m. Break

3:30 p.m. – 4:00 p.m. *Summit Wrap-up (Summary/Questions/Next Steps)*

Moderators: Jack Champlin, Deputy Regional Administrator, National Highway Traffic

Safety Administration and Jasvinderjit (Jesse) Bhullar, P.E., T.E., State Highway

Safety Engineer, California Department of Transportation

Gene Fong, Division Administrator, Federal Highway Administration

4:00 p.m. Adjourn



Workshop Descriptions



Workshop 1: Walking and Bicycling

Facilitators: Mike Cappelluti and Marcie Paolinelli, The Highlands Consulting Group

Although the annual number of pedestrian and bicycle deaths has been declining, approximately 20% of California's total fatalities and serious injuries come from these two areas. Pedestrian deaths are primarily an urban problem, as many are killed at crosswalks, sidewalks, median strips, and traffic islands. Many bicyclists are very young and inexperienced coupled with having to share the roadway with motor vehicles.

Workshop 1 Focus: This workshop will address how to make walking and street crossing safer and ensure safer bicycle travel in California.

Workshop 2: Truck, Motorcycle and Vehicle Safety

Facilitators: Lynn Belzer, Kent Johnson, and Chuck Tobia, The Highlands Consulting Group

Motorcycle fatalities have increased the past 6 years, reaching 368 fatalities or 8% of California's total fatalities despite the fact that fewer than 3 % of registered passenger vehicles in California are motorcycles. Similarly, 9% of all fatalities result from a collision with trucks. Poor driver performance, including poor decision making, is a major contributing factor to all these crashes.

Workshop 2 Focus: This workshop will address how to improve motorcycle safety and make truck travel safer.

Workshop 3: Emergency Medical Services

Facilitators: Robyn Dahlgren, Debby Lu, and Jim Turko, The Highlands Consulting Group

After traumatic injuries are sustained, the following minutes, or the so-called "golden hour" of survival, are critical with regard to saving the victim's life and minimizing the effects of injuries. Both the timelines and level of expertise at which care is provided are crucial factors in the equation.

Workshop 3 Focus: This workshop will address how to enhance emergency medical services in order to increase survivability of the victim.

Workshop 4: Reducing Impaired Driving

Facilitators: Elleen Jacobowitz and Kent Johnson, The Highlands Consulting Group

Among all traffic safety issues, impaired driving has perhaps the highest profile, and combating it has been vigorously pursued for decades with aggressive campaigns in both the public and private sectors; however, within California, traffic collisions caused by impaired drivers has been on the rise since 1998 and was responsible for 29% of all fatalities from 2001 – 2003.

Workshop 4 Focus: This workshop will address how to detect impaired drivers on California highways and prevent impaired driving.

Workshop 5: Improving the Design and Operation of Roadway Intersections

Facilitators: Eric Norton and Mark Adamic, The Highlands Consulting Group

Injury and fatality statistics for roadway intersections and interchanges are ample evidence that strategies to improve the safety of these crash-prone areas are urgently needed. Safety literature indicates that the two most prominent crash scenarios involve left turns and being struck from the rear. This area also includes highway-rail crossings that are 11 times more likely to result in a fatality and a large number of pedestrian fatalities.

Workshop 5 Focus: This workshop will address how to improve the safety of all intersections and interchanges.

Workshop Descriptions



Workshop 6: Curbing Aggressive Driving

Facilitators: Kent Johnson and Eileen Jacobowitz, The Highlands Consulting Group

Aggressive driving in California accounts for 15% of fatalities and 16% of serious injuries. Speeding excessively, changing lanes frequently without signaling, following too closely, flashing lights, driving on shoulders to pass, driving across marked barriers, shouting or gesturing at other drivers, uncontrolled anger, and stress created by traffic congestion are among the causes and manifestations of aggressive driving.

Workshop 6 Focus: This workshop will address how to curb aggressive driving, keep drivers alert, increase driver safety awareness, increase seatbelt usage and improve air bag effectiveness.

Workshop 7: Reducing Number and Severity of Run Off Road Collisions

Facilitators: Mike Cappelluti and Marcie Paolinelli, The Highlands Consulting Group

The number of fatalities attributed from vehicles leaving the roadway accounted for 20% of fatalities and 15% of serious injuries. In order to reduce the injuries and fatalities resulting from vehicles leaving the road, efforts must be made to: 1) keep vehicles from leaving the road, 2) reduce the likelihood of errant vehicles overturning or crashing into roadside objects, and 3) minimize the severity of an overturn or crash into a fixed object.

Workshop 7 Focus: This workshop will focus on strategies to keep vehicles from leaving the road and minimize the consequences of leaving the road.

Workshop 8: Design Safer Work Zones

Facilitators: Robyn Dahlgren, Debby Lu, and Jim Turko, The Highlands Consulting Group

Highway work zones create a major safety concern for motorists, non-motorists and workers. Work zones require increased attention because motorists and non-motorists are often faced with unique situations requiring special care. Highway workers, regardless of their assigned task, work in conditions of low lighting, low visibility and inclement weather, and may work in congested areas with exposure to high traffic volumes and speeds.

Workshop 8 Focus: This workshop will address how to make work zones safer for all travelers and workers.

Workshop 9: Improve Decision Support Systems

Facilitators: Lynn Belzer and Chuck Tobia, The Highlands Consulting Group

Good information properly used is one of the underpinnings of a sound traffic safety enterprise. The how, who, when, where and why of crashes needs to be recorded and the data should be made readily available for analysis and use. The technology exists to gather, integrate, and utilize information on a wide variety of important traffic safety issues.

Workshop 9 Focus: This workshop will address how to improve existing data collection and information to the decision support systems to create an effective safety management system.

Workshop 10: Driver Competency

Facilitators: Mark Adamic and Eric Norton, The Highlands Consulting Group

National research indicates that a substantial number of drivers continue to drive after their privileges have been suspended or revoked, which contribute to 18% of all fatalities in California. The loss of one's driving privileges often stems from serious issues associated with the driver's ability, whether young or old. The need to keep these driver's off the road deserves careful and thoughtful attention.

Workshop 10 Focus: This workshop will focus on ensuring drivers are fully licensed and competent and focus on improved competency for young and older drivers alike.



K. Craig Allred

Craig Allred has been in the traffic safety profession for over 30 years. Currently, he is a Transportation Specialist with the Safety and Design Team of the Federal Highway Administration (FHWA). Prior to arriving in California, Mr. Allred worked as the US Department of Transportation, Public Safety Coordinator in Washington, DC. He was also the Director of the Department of Highway Safety for the state of Utah and worked as the National Buckle Down Coordinator for the National Highway Traffic Safety Administration (NHTSA). Mr. Allred also has over 25 years of law enforcement experience as a sworn Officer in the state of Utah. He received his Bachelor's Degree in Psychology, Criminal Justice from Weber State University in Ogden, Utah. He has instructed and/or presented in 43 states, territories, and countries. He is a member of National AMBER Alert Advisory Board, the National Commission Against Drunk Driving Board, the Wireless E-911, the Operation Life Saver Board, the Operation CARE Board, the International Association of Chiefs of Police (IACP)/Highway Safety Committee, the FHWA/SHSP Team, and a Road Safety Audit Team Leader. He is also an Instructor for the Nation Highway Institute, the Traffic Safety Institute, the International Association of Chiefs of Police, the Combined Accident Reduction Efforts, the Law Enforcement Television Network, and the Fire Television Network. He has also served as the Chair, vice-chair, and a board member of the Governors Highway Safety Association.

Arthur Anderson

Assistant Commissioner Anderson has over 30 years as a member of the California Highway Patrol. His primary duties include: directing, controlling, and coordinating the Department's Field and Air Operations. Additionally, he is responsible for providing Executive protection to the Governor and Constitutional Officers of the State. He was previously the Division commander for the Patrol's Valley Region which consists of 18 commands within the Sacramento Valley. He also served as the commander of the CHP's Personnel and Training and Professional Standards Divisions. While rising through the ranks of the CHP, Assistant Commissioner Anderson has been assigned to Los Angeles, Sacramento, Monterey, Gilroy, and the San Francisco Bay Area. Prior to assuming command positions, Assistant Commissioner Anderson took a leave of absence and served as the Director of the Office of Traffic Safety under Governor Wilson and Governor Davis. While assigned to this position, Assistant Commissioner Anderson was responsible for administering over 50 million dollars annually to various communities throughout California. During his tenure at the Office of Traffic Safety he received numerous state and national awards for developing innovative programs. Assistant Commissioner Anderson is currently the highest ranking African American on the CHP and is a member of numerous organizations including the International Chiefs of Police, the National Organization of Black Law Enforcement Executives, and the Sacramento Rotary Club. Assistant Commissioner Anderson received his Bachelor of Science degree from California State University, Los Angeles and his Masters in Public Administration from the University of San Francisco.

Cesar Aristeiguieta

Dr. Cesar Aristeiguieta was appointed to the Division of Medical Quality by Governor Arnold Schwarzenegger in 2004. He is a board-certified emergency physician and medical director of the Los Angeles County Paramedic Training Institute. He also serves as medical director of the emergency department at Hi-Desert Medical Center in Joshua Tree. Dr. Aristeiguieta earned his medical doctorate degree from the University of Southern California and his bachelor of science from California State University Bakersfield.



Bernard Arseneau

Bernard Arseneau joined Minnesota Department of Transportation (MN/DOT) 23 years ago after receiving his Bachelor of Civil Engineering degree from the University of Minnesota. Mr. Arseneau has held several positions within MN/DOT including Director of Traffic Operations, Regional Transportation Management Center and Area Maintenance Engineer for MN/DOT Rochester, Tort Claims and Traffic Standards Engineers. In May 2003, Mr. Arseneau was appointed director of Office of Traffic Safety and Operations, and is the State Traffic Engineer. In November 2005, he was the recipient of the FHWA National Roadway Safety Award for Minnesota's Comprehensive Highway Safety Plan jointly developed by MN/DOT and the Minnesota Department of Public Safety. Mr. Arseneau is a registered Professional Engineer, Professional Traffic Operations Engineer and is a member of the Institute of Transportation Engineers, Minnesota Surveyors and Engineers, Society National Committee of Uniform Traffic Control Regulatory and Warning Technical team, AASHTO Subcommittee on Traffic Engineering and the ASTM International Subcommittee on Highway Traffic Control Materials, D-4 38.

Jasvinderjit (Jesse) Bhullar

Jasvinderjit (Jesse) Bhullar is currently a State Highway Safety Engineer for the California Department of Transportation's Division of Traffic Operations. In this capacity, Mr. Bhullar leads the development of California's Strategic Highway Safety Plan (SHSP) as required by the SAFETEA-LU Legislation. This entails Identifying California's key safety needs and guiding investment decisions to achieve significant reductions in fatalities and injuries on all public roads in California. Prior to this assignment, Mr. Bhullar was the Chief of the Office of Traffic Safety Program for Caltrans. He Managed the Department's Traffic Safety Program with the goal to reduce the number and/or severity of collisions. He provided direction and leadership to implement safety improvements to roadways, and improve safety by safety conscious planning, safety by design, driver behavior education and targeted enforcement. Mr. Bhullar directed the management of Department's Highway Safety Improvement Program and developed and updated the Department's Highway Safety Program Guidelines, Chapter 7 of the Traffic Manual and traffic safety devices sections of the Highway Design Manual. Mr. Bhullar earned his Bachelor of Science in Civil Engineering from Punjab University, India. He is a Licensed Civil Engineer and a Licensed Traffic Engineer. Mr. Bhullar is a Member of the National Cooperative Highway Research Program, NCHRP Panel on 17-18(3), providing Guidance for Implementation of the AASHTO Strategic Highway Safety Plan. A Member of AASHTO's Standing Committee on Highway Traffic Safety. He received the national 2005 Roadway Safety Award - an Honorable Mention for Caltrans by leading the effort on the Run Off Road Task Force's innovative approach to improved highway safety and design to minimize traffic fatalities on the road, and he is in a leadership role in leading the State of California in the Lane Departure and Intersection Safety emphasis areas as included in the AASHTO Highway Safety Implementation Plan.

Jack Champlin

Jack Champlin has served as Deputy Regional Administrator and as a Program Manager for the National Highway Traffic Safety Administration in the San Francisco Western Region Office for the past 10 years. His areas of program oversight include Vehicle Occupant Protection, Injury Control, Emergency Medical Services, Pedestrian Safety, Older Drivers, and Traffic Records Data Collection and Analysis. Prior to work at NHTSA, he worked ten years in the public health injury control programs in California as an Injury Prevention and Control Program Manager, specializing in traffic related injury. Mr. Champlin has been a lecturer on the topic of traffic safety and injury control at the Graduate Schools of Public Health and Engineering at the University of California Berkeley, is a frequent presenter at traffic safety and injury control conferences, and is published in the field of traffic injury prevention. Mr. Champlin is a resident of Lafayette, California, where he has served an appointment as a traffic commissioner.



Gene Fong

Gene Fong is the California Division Administrator for the Federal Highway Administration. As a key member of the Agency's management team, he provides executive direction over the activities within the Division to effectively promote, implement, and administer the largest and most complex Federal-aid program in the Nation. He directs a multi-level staff who provides technical and program guidance on the Federal-aid Highway Program to Caltrans, Metropolitan Planning Organizations, local agencies, and both Federal and State resource agencies.

Kevin Green

Kevin Green is a twenty-four year member of the California Highway Patrol, presently assigned as Assistant Commissioner over staff operations. As the Assistant Commissioner he provides oversight of the Department's 1.5 billion dollar budget, as well as six administrative divisions, including personnel, technology, planning, enforcement policy, administrative services, and training. Prior to his appointment as Assistant Commissioner, he commanded the Department's Information Technology Division. As Commander, he lead a compliment of over 300 sworn and non-sworn personnel, with responsibility for an approximate 53 million dollar annual budget. Oversight responsibilities included radio communications, computer networks, and the Department's Computer Crimes Investigations Unit. Other notable assignments included responsibility for state security in the Bay Area. Following the tragic events of September 11, 2001, then Assistant Chief Kevin Green assumed responsibility for developing and implementing security protocols for Bay Area bridges and other state infrastructure. He has also served as Commander of the San Diego, Yuba-Sutter, and Grass Valley offices, as well as the Sacramento Communications Center. During his career, he served in the capacity of investigator and later coordinator of the Department's Bureau of Internal Affairs Investigations Section. He is recognized by the Department of Personnel Administration and the California Commission on Police Officer Standards as an expert in the fields of employee discipline, Peace Officers Procedural Bill of Rights, and internal investigations. Finally, he served as a member of the Southern Division Officer Involved Shooting Team and Dignitary Protection Detail.

Will Kempton

Appointed by Governor Schwarzenegger in November 2004, Will Kempton is responsible for managing the day-to-day operations of California's state transportation system, including more than 50,000 lane miles of state highways stretching from Mexico to Oregon and from the Pacific Ocean to Nevada and Arizona. As leader of Caltrans, Mr. Kempton oversees an annual operating budget of more than \$9 billion, 22,000 employees, and \$7 billion worth of transportation improvements under construction. Mr. Kempton began his career in transportation with Caltrans in 1973. He held management positions in the area of finance and the director's office prior to being appointed as Assistant Director in charge of Legislative and Congressional affairs. In these positions, Mr. Kempton developed a broad understanding of transportation programs and policies at all levels of government. He is particularly knowledgeable in the area of transportation. Over the course of his career, Mr. Kempton has developed extensive contacts throughout the transportation community at all levels of government. These contacts include local, regional and state administrators, as well as many key members of the state Legislature and the United States Congress. Mr. Kempton has been able to use these contacts effectively to accomplish a variety of objectives. In January of 2003, Mr. Kempton joined the City of Folsom as Assistant City Manager, Community Services. He was responsible for overseeing the operations of the City's Community Development, Neighborhood Services, Parks and Recreation, Utilities, and Public Works departments. Prior to his appointment, he served as a City Parks and Recreation Commissioner for eight years.



David Manning

David Manning, Ph.D., has served as the National Highway Traffic Safety Administration (NHTSA), Western Region Administrator since February 1999. Western Region has responsibility for the states of Arizona, California, Hawaii and Nevada, as well as the territories of American Samoa, Guam and the Commonwealth of the Northern Mariana Islands. Prior to joining NHTSA in February 1988, Dr. Manning served for eight years as the Governor's Highway Safety Representative (GR) for Wisconsin where he had the daily responsibility for the leadership and management of the state's highway safety office. In his GR capacity, he served for three years on the Executive Board of the National Association of the Governor's Highway Safety Representatives (NAGHSR) Executive Seminar for four years. In 1996, Dr. Manning was chosen as one of the 10 members of a nationwide team to travel to Australia and New Zealand to conduct an international audit of the safety programs of those two countries. Dr. Manning has his undergraduate degree in Economics from the University of Missouri. He received both his Masters degree in Urban Affairs and his Doctorate in Urban Education from the University of Wisconsin.

John McClellan

John McClellan is the Department of Motor Vehicles' Driver Licensing Deputy Director. He's responsible for the development and administration of driver license and driver safety programs, driver education curriculum and DMV's Research and Development Program.

Michele Meadows

Michele Meadows is the Assistant Director for Program Planning and Operations and a senior member of the California Office of Traffic Safety. During her 19 years, at OTS, Michele has administered nearly \$30 million to state and local agencies for alcohol and other drug, and bicycle and pedestrian safety projects. She has served as the department's expert for alcohol and other drug programs, the legislative analyst, represented OTS on the Traffic Advisory Committee of the California Judicial Council, and is a current member of the Governor's Prevention Advisory Council.

Christopher J. Murphy

Christopher J. Murphy was appointed Director of the California Office of Traffic Safety (OTS), and the Governor's Highway Safety Representative for the State of California by Governor Arnold Schwarzenegger in August, 2005. Mr. Murphy previously served as Deputy Director since March 2003. He is responsible for administering the California Traffic Safety Program, which includes preparing an annual comprehensive highway traffic safety plan to reduce victims killed and injured in traffic crashes and publishing an Annual Performance Report that details the accomplishments and progress of the California Traffic Safety Program. Within his role, Mr. Murphy oversees the day-to-day operations of the office, including public relations and marketing and is responsible for the administration, distribution and management of \$88 million in traffic safety grants on an annual basis. As Director, Mr. Murphy is also responsible for setting the department's annual strategic goals that include working collaboratively with Agency and other identified departments to extend reach of programs and promote new leadership, proactively looking to address and resolve emerging traffic safety trends and issues, building winning partnerships with private sector entities, funding evidenced-based programs, and evaluating and improving policies and procedures by applying future-oriented concepts of technology and management. Mr. Murphy received the NHTSA Administrator's Award of Excellence for developing the Police Traffic Services Blueprint and, during the past year, the Office received four prestigious marketing awards from local and statewide marketing and public relations organizations. In September 2005, he was elected Vice Chair of the Governors Highway Safety Association (GHSA). He is also a faculty member of the GHSA Executive Training Seminar for states with new Governors Highway Safety Representatives. Active in the traffic safety community, he is also a member of the Governor's Alcohol Policy Council, California Older Driver Task Force, Drive Smart Sacramento, Traffic Alliance for a Safer California, Corridor Safety Committees and the Statewide Illegal Street Racing Task Force. Mr. Murphy has been with the OTS for 20 years, serving in more positions than anyone in the office's 37-year history.



In 1990, he became the Police Traffic Services program coordinator, during which time he managed over 350 law enforcement grants, developed and implemented the "Statewide Roadside Sobriety Checkpoint Program for Local Law Enforcement" and the "Statewide Visible Display Radar Trailer Program." He also developed the "Vehicle Impound Blueprint" for local law enforcement that serves as a model of effectiveness and financial sustainability. Mr. Murphy earned his Bachelor of Science degree in Business Administration with a concentration in Accounting from California State University, Sacramento, in 1985.

Maurice Shiu

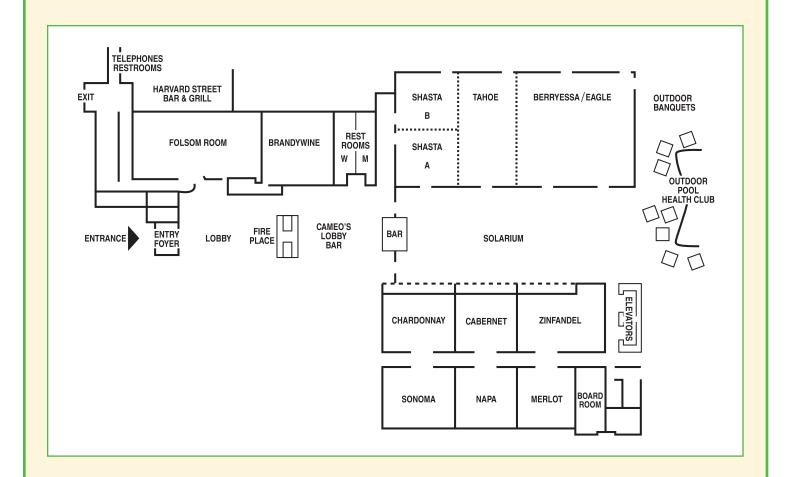
Maurice Shiu is the Public Works Director of Contra Costa County, California. Contra Costa County, with a population of 1 million, is part of the nine-county San Francisco Bay Area. Mr. Shiu is currently the President of the County Engineers Association of California (CEAC) and he has been the vice chair and chair of the CEAC Transportation Committee since 1990. He received the County Engineer of the Year Award by CEAC in 2003. Besides active at the County Engineers Association, he also serves on the Accreditation Council of the American Public Works Association. He graduated from the University of California, Berkeley with a Bachelor's degree in Civil Engineering in 1969 and received his Masters degree in Transportation and Traffic Engineering from the Institute of Transportation Studies from the University of California, Berkeley in 1971.

The Highlands Consulting Group

Founded in 2002, The Highlands Consulting Group, LLC. (HCG) provides expert guidance in professional project management (consulting and training), business process reengineering and redesign, business cost/benefit analysis, strategic business process planning, as well as information technology planning and professional training for large, complex businesses and public sector agencies. HCG is a California state-certified small business based out of Sacramento.

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